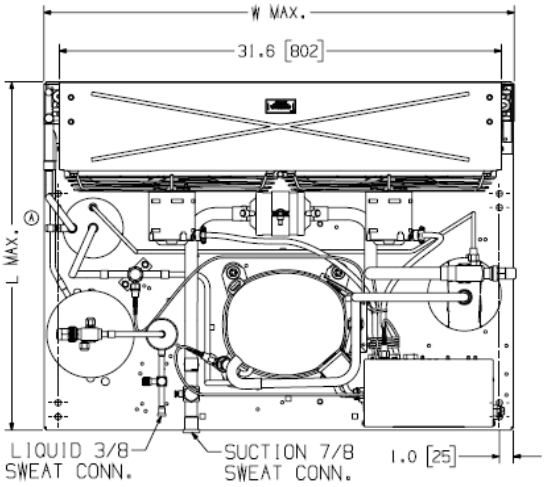
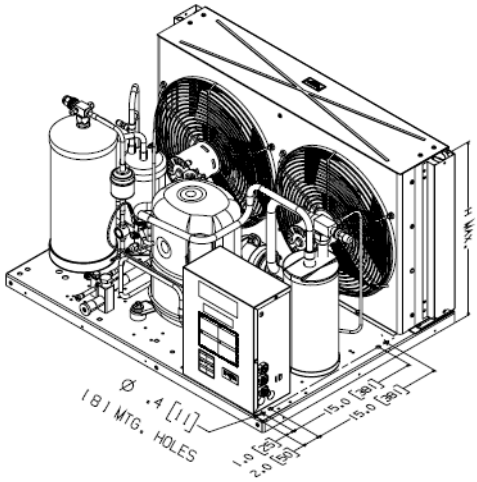
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWA9511ZXNXF **BoM: 2B1167-1** **R-404A** **1.5 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWA9511ZXNXF	25.0	33.5	19.5	14.7	7/8” S	3/8” S	16.46 lbs	1850	38.5	190
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-5	28.1	5986	1514	98	5482	1501	103	4711	1481	110	3659	1455	119
0	32.8	6872	1614	100	6366	1603	104	5555	1587	111	4386	1567	120
5	37.9	7890	1714	101	7367	1705	106	6501	1693	112	5210	1681	121
10	43.3	9036	1811	103	8482	1805	107	7549	1799	114	6133	1796	123
15	49.1	10314	1908	104	9714	1906	109	8699	1906	115	7153	1911	124
20	55.5	11723	2004	106	11062	2006	110	9951	2013	117	8272	2028	126
25	62.2	13261	2099	108	12525	2106	112	11306	2120	119	9488	2145	128
30	69.5	14930	2192	110	14104	2205	114	12762	2227	121	10803	2263	129
35	77.2	16730	2285	112	15799	2303	116	14321	2334	122	12216	2382	131
40	85.5	18661	2376	114	17610	2401	118	15982	2442	124	13726	2502	133
45	94.3	20721	2466	116	19536	2498	120	17745	2550	126	15335	2623	135

60 Hz Performance

Return gas temp. 40°F Evaporator Temp. 20°F or less, 5°F sub-cooling
Return gas temp. 65°F for Evaporator Temp. > 20°F, 5°F sub-cooling

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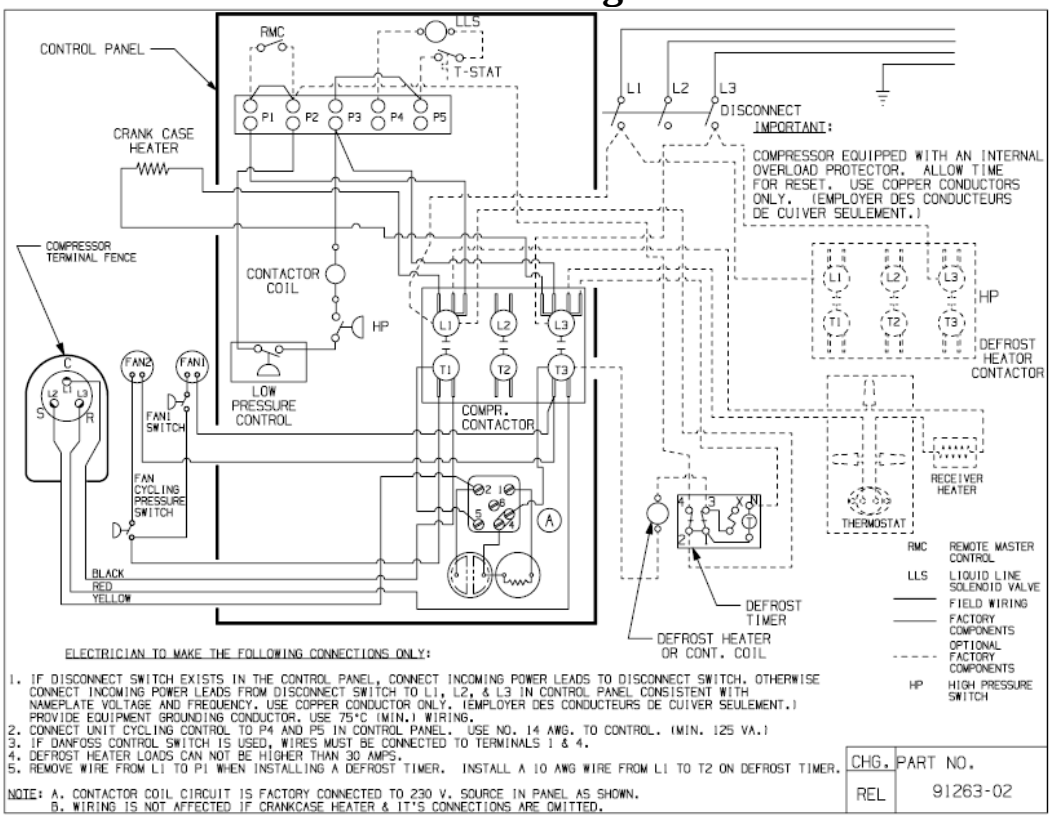
Specifications/ Parts:

Model	AWA9511ZXNXF
Unit Bill of Material	2B1167-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	-5° to 45°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	14.9
Max. Fuse Size (amps)	25
Compressor Model	AWA9490ZXN
Comp. Bill of Material	AW616ET-099-P2
Compressor RLA/LRA	10.6 / 51.0
Overload	INTERNAL
Relay	820ARR3H23
Run Capacitor	85PR370F17
Run Capacitor Rating	35MFD 370V(M)VDE
Start Capacitor	85PS330D17
Start Capacitor Rating	145-175 MFD 330V VDE
Contactor	91014
Unit Drawing	DGU1918-58
Wiring Diagram	91263-02

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-2
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	N/A
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN2
FAN1
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
COMPR. CONTACTOR
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
T1 T2 T3
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
BLACK
RED
YELLOW
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. REMOVE WIRE FROM L1 TO P1 WHEN INSTALLING A DEFROST TIMER. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. PART NO.
REL 91263-02